

TR-1000

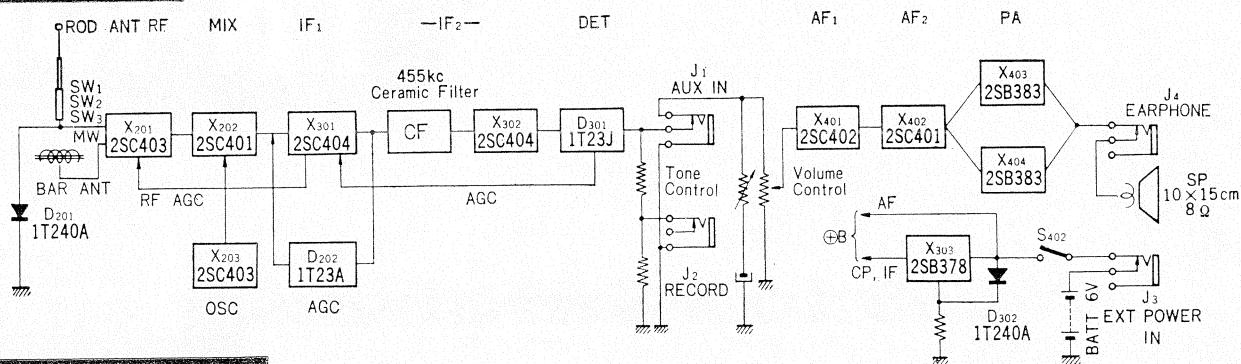


Specifications

Circuit :	10 Transistor Superheterodyne
Frequency Coverage :	MW 530~1,605 Kc (566~187 m) SW ₁ 1.7~4 Mc (176.5~75 m) SW ₂ 4~9.8 Mc (75~30.6 m) SW ₃ 9.8~22 Mc (30.6~13.6 m)
Antenna System :	MW Built-in Ferrite Bar Antenna SW Built-in Telescopic Antenna Jack for External Antenna
Intermediate Frequency :	455 Kc
Maximum Sensitivity :	MW 25.5 dB/m (19 μ V/m) (at 50 mW output with 6 dB S/N) SW ₁ 4.5 dB (1.7 μ V) SW ₂ 3.5 dB (1.5 μ V) SW ₃ 3 dB (1.4 μ V)
Selectivity :	40 dB at 10 Kc off resonance, at 1,400 Kc
Output Power :	820 mW (undistorted) 1,300 mW (maximum)
Current Drain :	20 mA at zero signal, 245 mA at 820 mW output
Speaker :	Oval Type, 4 \times 6" (10 \times 15 cm), PM dynamic, 8 Ω
Power Source :	Four "D" Size Flashlight Batteries, 6V in total, or House Current by using SONY AC Power Adapter
Dimensions :	10-3/8 (W) \times 8-9/16 (H) \times 4-1/16" (D) (264 \times 218 \times 103 mm)
Weight :	5 lbs. 8 ozs. (2.5 Kgs.) with Batteries

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SERVICING GUIDE

Block Diagram



Removal of Chassis

- (1) Remove the two Back Cover Holding Screws and open the Back Cover.
- (2) Remove the Knobs by pulling them out.
- (3) Remove the Power ON/OFF Switch Button by pulling it up.
- (4) Remove the three Jacks by removing the corresponding Nuts from the Cabinet
- (5) Unsolder the two leads at the speaker terminals.
- (6) Remove the five Nuts marked with \triangle shown in Fig. 1.
- (7) Remove the Chassis from the Cabinet gently taking care not to catch the Power ON/OFF Switch to the Cabinet.

Removal of RF Circuit Board

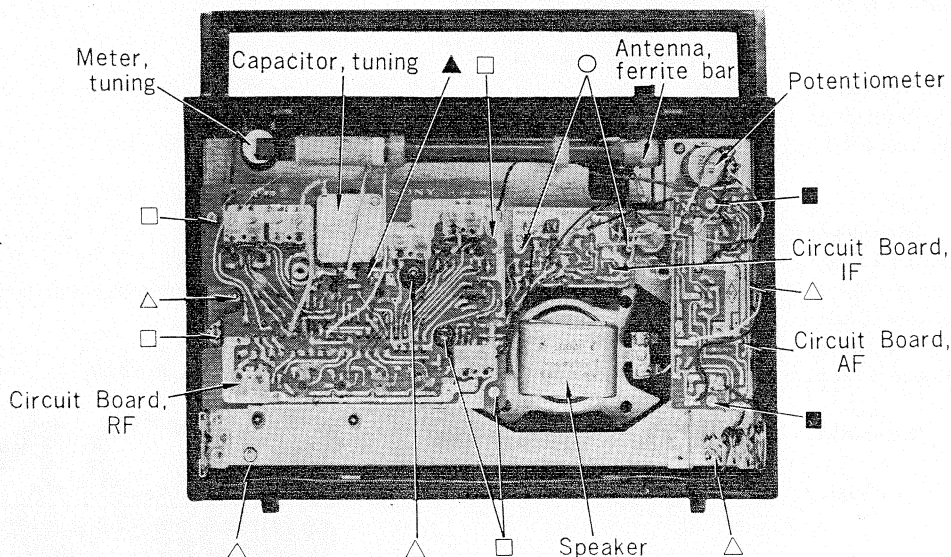
- (1) Unsolder the Braided Wire (marked with \blacktriangle shown in Fig. 1) and the ground terminal of the Tuning Capacitor at the RF Circuit Board.
- (2) Remove the five Screws marked with \square shown in Fig. 1.
- (3) Remove the RF Circuit Board from the Chassis gently taking care not to cut the leads.

Removal of IF Circuit Board

- (1) Remove the two Screws marked with \bigcirc shown in Fig. 1.
 - (2) Remove the IF Circuit Board from the Chassis gently taking care not to cut the leads.
- If it is necessary to remove the IF Circuit Board completely from the Chassis, unsolder all the leads on the IF Circuit Board.

Removal of AF Circuit Board

- (1) Remove the two Screws marked with \blacksquare shown in Fig. 1.
- (2) Unsolder all the leads going from it to other points on the AF Circuit Board.



(Fig. 1)

Frequency Coverage and Tracking Adjustment

Preparation for Adjustments

☆ Receiver to be adjusted

- Power Source Voltage : Keep 6 Volts during the adjustments.
- Volume Control Setting : Set at mechanical 80% position.
- Tone Control Setting : Turn clockwise to the full.
- Fine Tuning Capacitor Setting : Set the slit mark on the Fine Tuning Knob in the horizontal direction.
- All Trimmer Capacitor except SW1 Antenna Trimmer Capacitor Setting :

Set at mechanical mid position. (Set the SW1 Antenna Trimmer Capacitor at zero capacitance position when SW1 Tracking Adjustment is performed.)

☆ Signal Source :

Use a SSG (Standard Signal Generator) which can deliver RF signals modulated at 30% with 1,000 c/s.

☆ Load for Output :

Connect an 8Ω resistor instead of speaker.

☆ Output Meter :

Connect across the load resistor 8Ω .

(VTVM can be used also.)

☆ Rated Output :

50 mW (0.63 V across the 8Ω resistor)

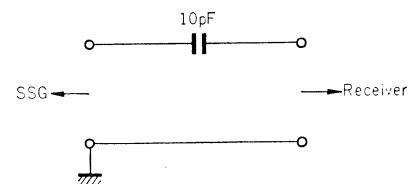
☆ Antenna :

Use a Loop Antenna at MW Band Adjustment. (Use a Dummy Antenna shown in Fig. 2 after pulling out the Pin Connector attached to the lead coming from the Telescopic Antenna on the RF Circuit Board at SW Band Adjustments.)

MW Band

a) Frequency Coverage Adjustmnt

- (1) Set the Band Setting Switch to MW.
- (2) Set the Tuning Capacitor at the maximum capacitance position by turning the Tuning Knob of the Receiver counter-clockwise to the full.
- (3) Deliver a 520 Kc signal from the SSG.
- (4) Adjust the core of the MW OSC Coil (L_{209}) to tune to the signal.
- (5) Set the Tuning Capacitor at the minimum capacitance position by turning the Tuning Knob of the Receiver clockwise to the full.
- (6) Deliver a 1,680 Kc signal from the SSG.
- (7) Adjust the MW OSC Trimmer Capacitor (C_{2-9}) to tune to the signal.
- (8) Repeat the above procedures (2~7) until the frequency range between 520 Kc and 1,680 Kc is fully covered.



(Fig. 2)

b) Tracking Adjustment

- (1) Deliver a 620 Kc signal from the SSG.
- (2) Tune to the signal by turning the Tuning Knob of the Receiver.
- (3) Adjust the position of the MW ANT Coil (L_{201}) along the Ferrite Bar and the core of the MW RF Coil (L_{205}) in turn to obtain the maximum output.
- (4) Deliver a 1,400 Kc signal from the SSG.
- (5) Tune to the signal by turning the Tuning Knob of the Receiver.
- (6) Adjust the MW ANT Trimmer Capacitor (C_{2-1}) and the MW RF Trimmer Capacitor (C_{2-5}) in turn to obtain the maximum output.
- (7) Repeat the above procedures (1~6) until the maximum output is obtained.

SW1 Band

a) Frequency Coverage Adjustment

- (1) Set the Band Setting Switch to SW₁.
- (2) Set the Tuning Capacitor at the maximum capacitance position by turning the Tuning Knob of the Receiver counter-clockwise to the full.
- (3) Deliver a 1.65 Mc signal from the SSG.
- (4) Adjust the core of the SW₁ OSC Coil (L₂₁₀) to tune to the signal.
- (5) Set the Tuning Capacitor at the minimum capacitance position by turning the Tuning Knob of the Receiver clockwise to the full.
- (6) Deliver a 4.2 Mc signal from the SSG.
- (7) Adjust the SW₁ OSC Trimmer Capacitor (C₂₋₁₀) to tune to the signal.
- (8) Repeat the above procedures (2~7) until the frequency range between 1.65 Mc and 4.2 Mc is fully covered.

b) Tracking Adjustment

- (1) Deliver a 1.65 Mc signal from the SSG.
- (2) Tune to the signal by turning the Tuning Knob of the Receiver.
- (3) Adjust the core of the SW₁ ANT Coil (L₂₀₂) and the core of the SW₁ RF Coil (L₂₀₆) in turn to obtain the maximum output.
- (4) Deliver 4.2 Mc signal from the SSG.
- (5) Tune to the signal by turning the Tuning Knob of the Receiver.
- (6) Adjust the SW₁ ANT Trimmer Capacitor (C₂₋₂) and the SW₁ RF Trimmer Capacitor (C₂₋₆) in turn to obtain the maximum output.
- (7) Repeat the above procedures (1~6) until the maximum output is obtained.

SW2 Band

a) Frequency Coverage Adjustment

- (1) Set the Band Setting Switch to SW₂.
- (2) Set the Tuning Capacitor at the maximum capacitance position by turning the Tuning Knob of the Receiver counter-clockwise to the full.
- (3) Deliver a 3.9 Mc signal from the SSG.
- (4) Adjust the core of the SW₂ OSC Coil (L₂₁₁) to tune to the signal.
- (5) Set the Tuning Capacitor at the minimum capacitance position by turning the Tuning Knob of the Receiver clockwise to the full.
- (6) Deliver a 10.2 Mc signal from the SSG.
- (7) Adjust the SW₂ OSC Trimmer Capacitor (C₂₋₁₁) to tune to the signal.
- (8) Repeat the above procedures (2~7) until the frequency range between 3.9 Mc and 10.2 Mc is fully covered.

b) Tracking Adjustment

- (1) Deliver a 3.9 Mc signal from the SSG.
- (2) Tune to the signal by turning the Tuning Knob of the Receiver.
- (3) Adjust the core of the SW₂ ANT Coil (L₂₀₃) and the core of the SW₂ RF Coil (L₂₀₇) in turn to obtain the maximum output.
- (4) Deliver a 10.2 Mc signal from the SSG.
- (5) Tune to the signal by turning the Tuning Knob of the Receiver.

- (6) Adjust the SW₂ ANT Trimmer Capacitor (C₂₋₃) and the SW₂ RF Trimmer Capacitor (C₂₋₇) in turn to obtain the maximum output.
- (7) Repeat the above procedures (1~6) until the maximum output is obtained.

SW3 Band

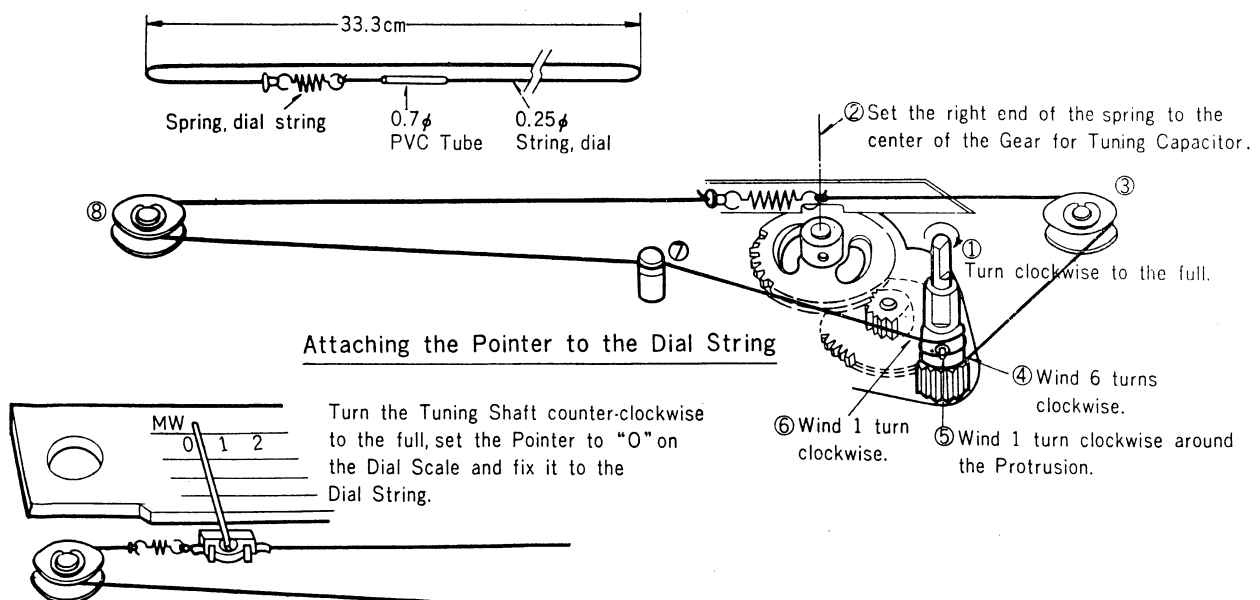
a) Frequency Coverage Adjustment

- (1) Set the Band Setting Switch to SW₃.
- (2) Set the Tuning Capacitor at the maximum capacitance position by turning the Tuning Knob of the Receiver counter-clockwise to the full.
- (3) Deliver a 9.5 Mc signal from the SSG.
- (4) Adjust the core of the SW₃ OSC Coil (L₂₁₂) to tune to the signal.
- (5) Set the Tuning Capacitor at the minimum capacitance position by turning the Tuning Knob of the Receiver clockwise to the full.
- (6) Deliver a 22.8 Mc signal from the SSG.
- (7) Adjust the SW₃ OSC Trimmer Capacitor (C₂₋₁₂) to tune to the signal.
- (8) Repeat the above procedures (2~7) until the frequency range between 9.5 Mc and 22.8 Mc is fully covered.

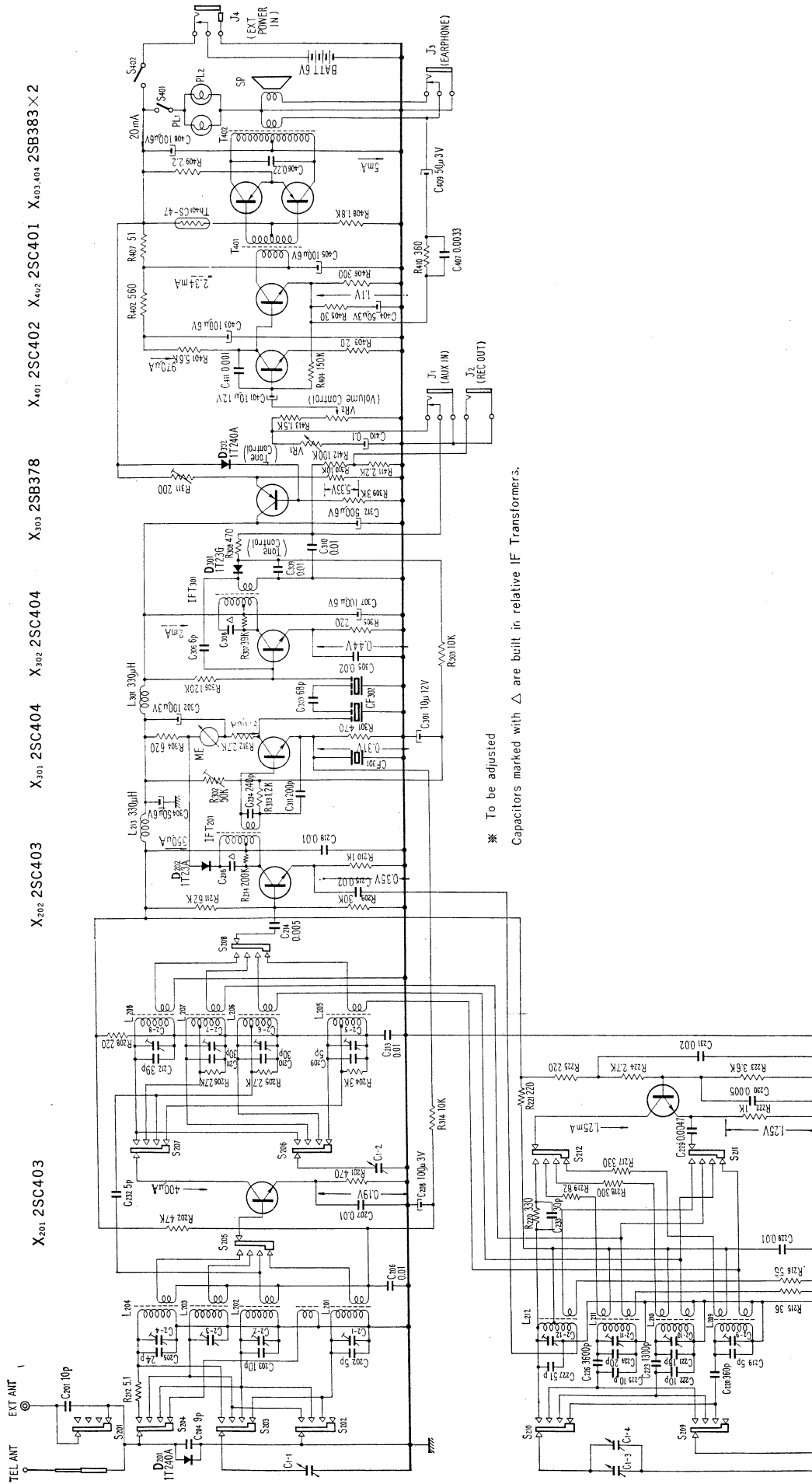
b) Tracking Adjustment

- (1) Deliver a 9.5 Mc signal from the SSG.
- (2) Tune to the signal by turning the Tuning Knob of the Receiver.
- (3) Adjust the core of the SW₃ ANT Coil (L₂₀₄) and the core of the SW₃ RF Coil (L₂₀₈) in turn to obtain the maximum output.
- (4) Deliver a 22.8 Mc signal from the SSG.
- (5) Tune to the signal by turning the Tuning Knob of the Receiver.
- (6) Adjust the SW₃ ANT Trimmer Capacitor (C₂₋₄) and the SW₃ RF Trimmer Capacitor (C₂₋₈) in turn to obtain the maximum output.
- (7) Repeat the above procedures (1~6) until the maximum output is obtained.

To String the Dial Cord



Schematic Diagram



* To be adjusted
Capacitors marked with Δ are built in relative IF Transformers.

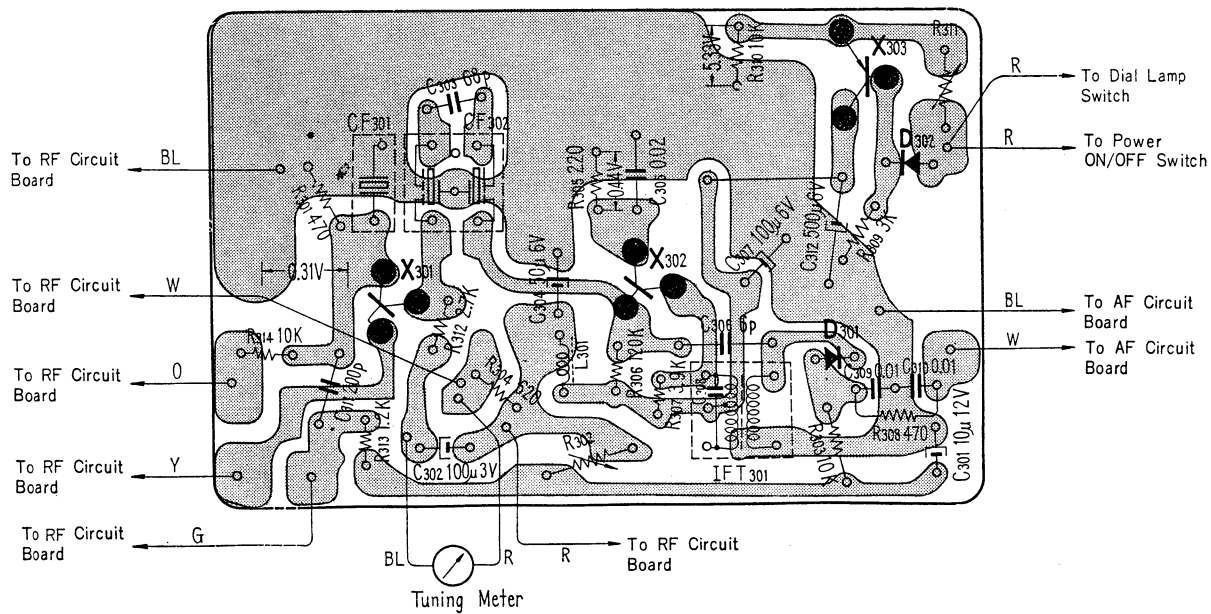
X₂₀₃ 2SC401

RF Section

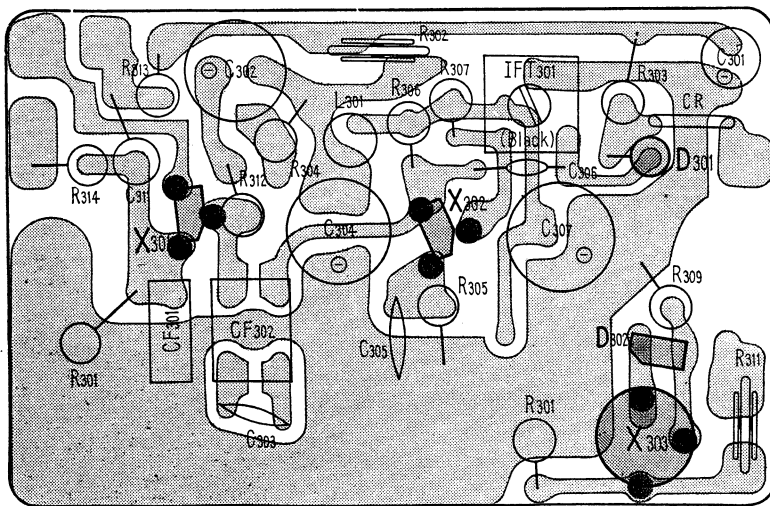
Mounting Diagram

IF Section

– Parts Side –



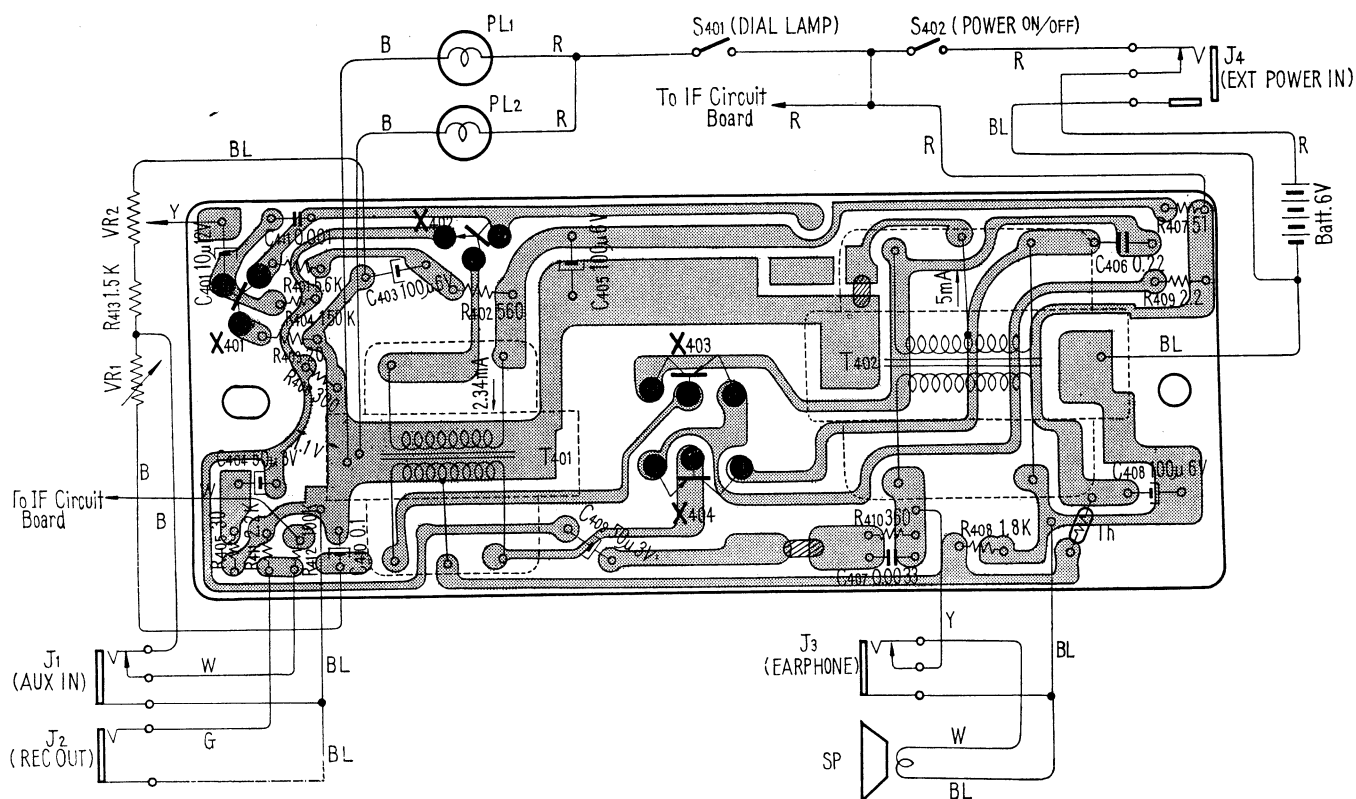
—Parts Side—



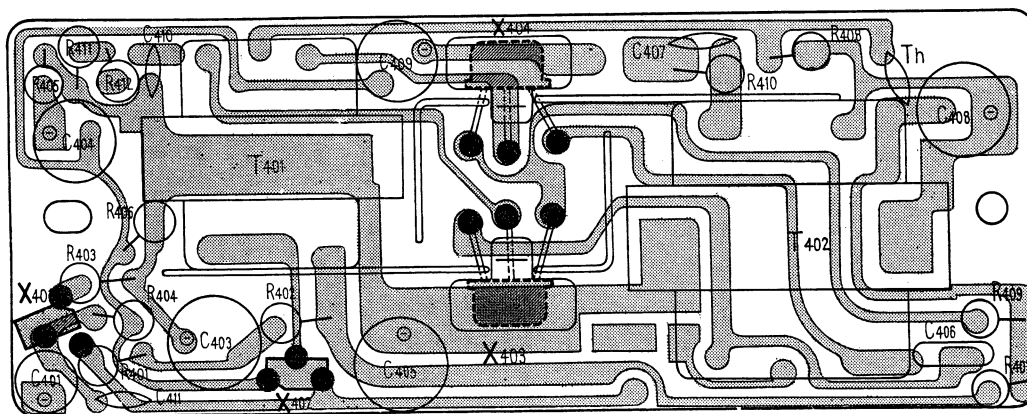
Mounting Diagram

AF Section

— Printed Side —



—Parts Side—



Electrical Parts List

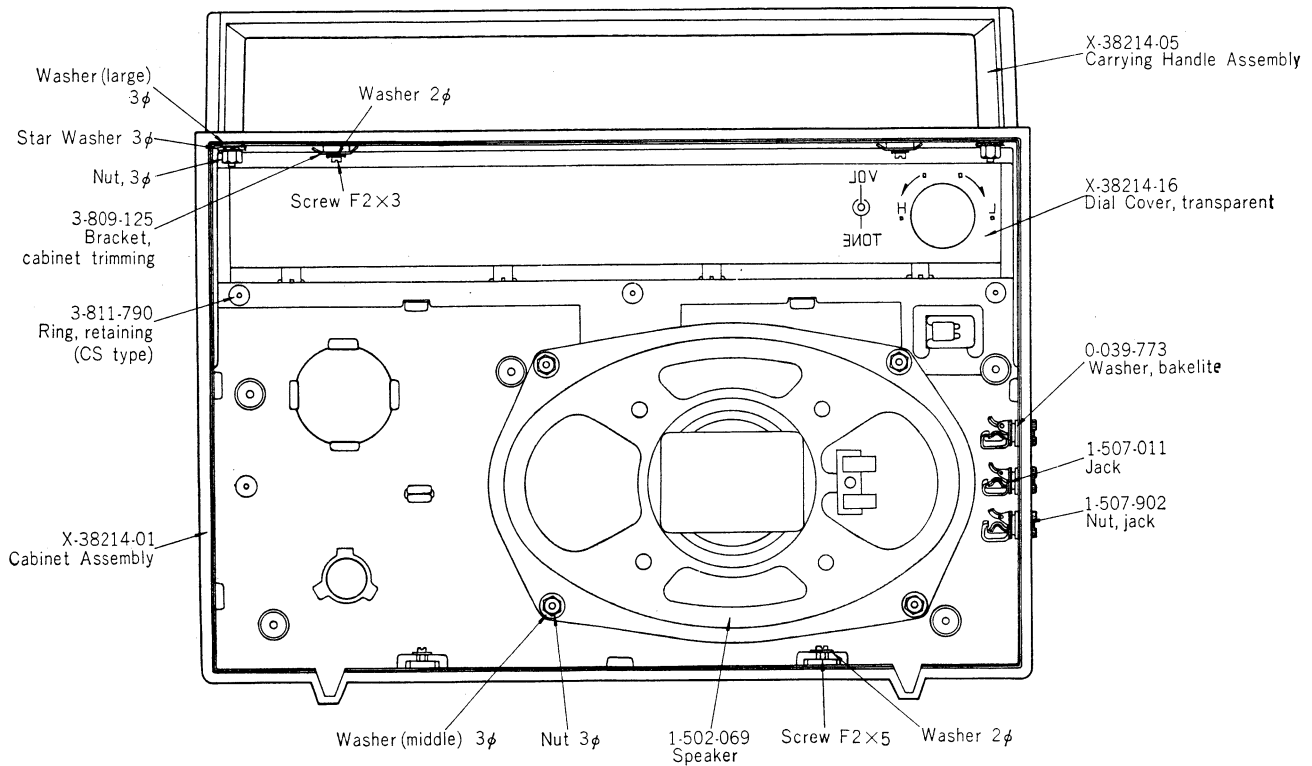
Part No.	Symbol	Description	Part No.	Symbol	Description
1-501-007-01	Tel. ANT	Antenna, telescopic			Resistor
1-507-036-02	Ext. ANT	Jack, external antenna	1-221-752-11	VR ₁	Tone Control, 5K Ω
1-401-277-12	L ₂₀₁	Coil, MW ferrite bar antenna		VR ₂	Volume Control, 5K Ω
-274-11	L ₂₀₂	Coil, SW ₁ antenna	1-240-465-11	R ₂₀₁	470 Ω $\frac{1}{8}$ W Carbon
-275-11	L ₂₀₃	Coil, SW ₂ antenna	-513-11	R ₂₀₂	47K Ω " "
1-425-233-11	L ₂₀₄	Coil, SW ₃ antenna	1-242-697-11	R ₂₀₃	10K Ω " "
-232-11	L ₂₀₅	Transformer, MW RF	1-240-484-11	R ₂₀₄	3K Ω " "
-246-11	L ₂₀₆	Transformer, SW ₁ RF	-483-11	R ₂₀₅	2.7K Ω " "
-247-11	L ₂₀₇	Transformer, SW ₂ RF	-483-11	R ₂₀₆	2.7K Ω " "
-233-11	L ₂₀₈	Transformer, SW ₃ RF		R ₂₀₇	—deleted—
1-405-275-11	L ₂₀₉	Coil, MW oscillator	1-240-457-11	R ₂₀₈	220 Ω $\frac{1}{8}$ W Carbon
-276-11	L ₂₁₀	Coil, SW ₁ oscillator	-508-11	R ₂₀₉	30K Ω " "
-277-11	L ₂₁₁	Coil, SW ₂ oscillator	-473-11	R ₂₁₀	1K Ω " "
-278-11	L ₂₁₂	Coil, SW ₃ oscillator	1-244-516-11	R ₂₁₁	62K Ω " "
1-407-050-11	L ₂₁₃	Inductor, micro	-418-11	R ₂₁₂	5.1 Ω " "
1-403-119-11	IFT ₂₀₁	Transformer, IF single tuned		R ₂₁₃	—deleted—
-152-11	IFT ₃₀₁	Transformer, IF single tuned	1-240-528-11	R ₂₁₄	200K Ω $\frac{1}{8}$ W Carbon
-154-11	CF ₃₀₁	Filter, ceramic	-438-11	R ₂₁₅	36 Ω " "
-153-11	CF ₃₀₂	Filter, ceramic (with C ₃₀₃)	-443-11	R ₂₁₆	56 Ω " "
1-423-100-11	T ₄₀₁	Transformer, driver	1-244-461-11	R ₂₁₇	330 Ω " "
1-427-088-11	T ₄₀₂	Transformer, output	-460-11	R ₂₁₈	300 Ω " "
			1-240-447-11	R ₂₁₉	82 Ω " "
1-520-069-11	ME	Meter, tuning	1-244-461-11	R ₂₂₀	330 Ω " "
1-507-011-01	J ₁	Jack, auxiliary input	1-240-457-11	R ₂₂₁	220 Ω " "
-011-01	J ₂	Jack, detector output	-473-11	R ₂₂₂	1K Ω " "
-011-01	J ₃	Jack, earphone	-486-11	R ₂₂₃	3.6K Ω " "
-126-11	J ₄	Jack, external power input	-483-11	R ₂₂₄	2.7K Ω " "
1-518-006-05	PL ₁	Lamp, dial	-457-11	R ₂₂₅	220 Ω " "
-006-05	PL ₂	Lamp, dial	1-244-465-11	R ₃₀₁	470 Ω " "
1-513-314-11	S ₂₀₁₋₂₁₂	Switch, band setting	1-221-637-11	R ₃₀₂	50K Ω Adjustable
1-514-078-00	S ₄₀₁	Switch, dial lamp	1-244-497-11	R ₃₀₃	10K Ω $\frac{1}{8}$ W Carbon
-191-11	S ₄₀₂	Switch, power on/off	-468-11	R ₃₀₄	620 Ω " "
1-502-069-11	SP	Speaker	-457-11	R ₃₀₅	220 Ω " "
1-528-001-00	Batt.	Battery, 6V in total	-523-11	R ₃₀₆	120K Ω " "
			-487-11	R ₃₀₇	3.9K Ω " "
	X ₂₀₁	Transistor 2SC403	1-231-016-11	R ₃₀₈	470 Ω (Built in Encapsulated Component)
	X ₂₀₂	" 2SC403			
	X ₂₀₃	" 2SC401	1-244-484-11	R ₃₀₉	3K Ω $\frac{1}{8}$ W Carbon
	X ₃₀₁	" 2SC404	-497-11	R ₃₁₀	10K Ω " "
	X ₃₀₂	" 2SC404	1-221-632-11	R ₃₁₁	200 Ω Adjustable
	X ₃₀₃	" 2SB378	1-244-483-11	R ₃₁₂	2.7K Ω $\frac{1}{8}$ W Carbon
	X ₄₀₁	" 2SC402	-475-11	R ₃₁₃	1.2K Ω " "
	X ₄₀₂	" 2SC401	-497-11	R ₃₁₄	10K Ω " "
	X ₄₀₃	" 2SB383	1-201-864-11	R ₄₀₁	5.6K Ω " Composition
	X ₄₀₄	" 2SB383	-872-11	R ₄₀₂	560 Ω " "
	D ₂₀₁	Diode 1T240A	-951-11	R ₄₀₃	20 Ω " "
	D ₂₀₂	" 1T23A	-113-11	R ₄₀₄	150K Ω " "
	D ₃₀₁	" 1T23G	-278-11	R ₄₀₅	30 Ω " "
	D ₃₀₂	" 1T240A	-277-11	R ₄₀₆	300 Ω " "
	Th ₄₀₁	Thermistor CS-47	-968-11	R ₄₀₇	51 Ω " "

—continued—

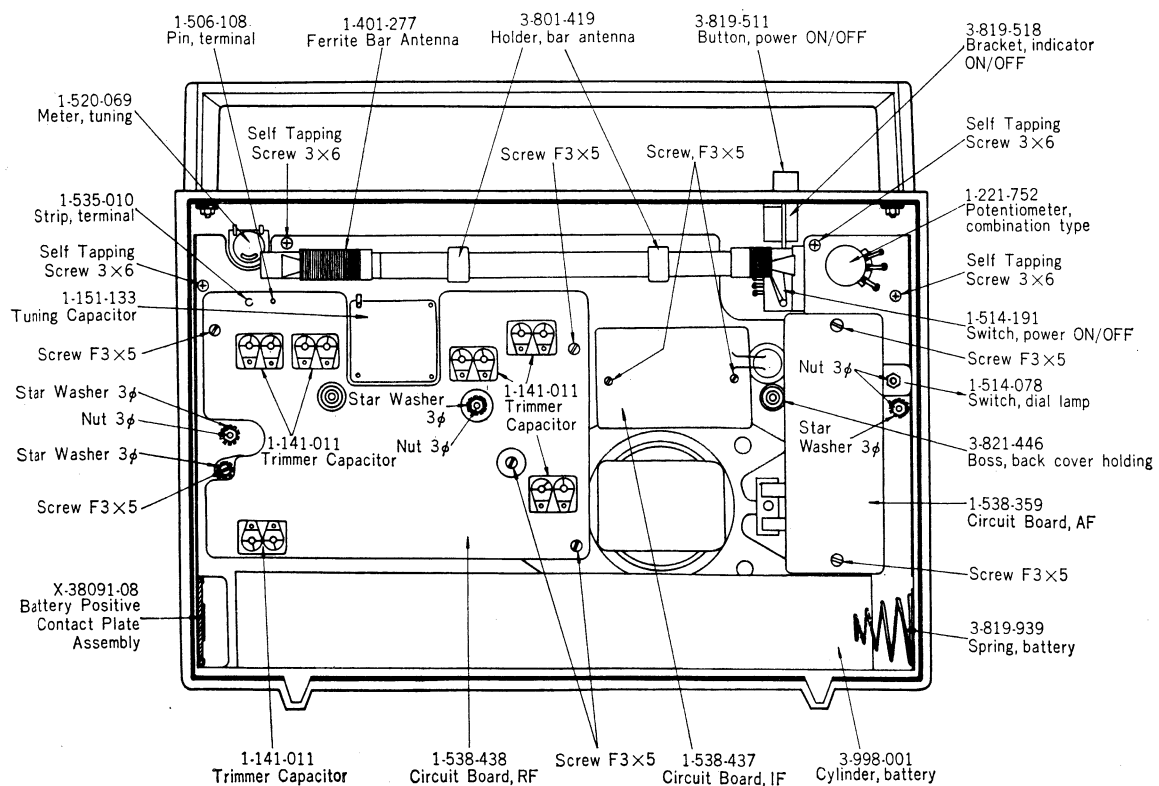
Part No.	Symbol	Description	Part No.	Symbol	Description
1-201-650-11	R ₄₀₈	1.8K Ω $\frac{1}{8}$ W Composition	1-101-959-11	C ₂₂₅	10pF Ceramic
-401-11	R ₄₀₉	2.2 Ω $\frac{1}{4}$ W //	1-103-688-11	C ₂₂₆	3600pF Styrol
-859-11	R ₄₁₀	360 Ω $\frac{1}{8}$ Ω //	1-101-882-11	C ₂₂₇	51pF Ceramic
-863-11	R ₄₁₁	2.2K Ω // //	1-105-411-11	C ₂₂₈	0.01 μ F Mylar
-868-11	R ₄₁₂	100K Ω // //	-829-12	C ₂₂₉	0.0047 μ F //
1-244-477-11	R ₄₁₃	1.5K Ω // Carbon	1-101-140-11	C ₂₃₀	0.005 μ F Ceramic
		Capacitor	-142-11	C ₂₃₁	0.02 μ F //
1-151-133-11	C _{1-1~3}	Tuning Capacitor, 3 gang	-955-11	C ₂₃₂	5PF //
-134-11	C ₁₋₄	Tuning Capacitor, fine	-871-11	C ₂₃₃	30PF //
1-141-011-00	C _{2-1~12}	Trimmer Capacitor, 2 unit	1-103-610-11	C ₂₃₄	240pF Styrol
1-101-959-11	C ₂₀₁	10pF Ceramic	1-121-282-11	C ₃₀₁	10 μ F 12V Electrolytic
-955-11	C ₂₀₂	5pF //	-290-11	C ₃₀₂	100 μ F 3V //
-959-11	C ₂₀₃	10pF //	C ₃₀₃	68pF Ceramic (Attached to CF ₃₀₂)	
-860-11	C ₂₀₄	9pF //	1-121-322-11	C ₃₀₄	50 μ F 6V Electrolytic
-867-11	C ₂₀₅	24pF //	1-101-142-11	C ₃₀₅	0.02 μ F Ceramic
-141-11	C ₂₀₆	0.01 μ F //	-956-11	C ₃₀₆	6pF //
-141-11	C ₂₀₇	0.01 μ F //	1-121-291-11	C ₃₀₇	100 μ F 6V Electrolytic
1-121-290-11	C ₂₀₈	100 μ F 3V Electrolytic	C ₃₀₈	(Built in IFT ₃₀₁)	
1-101-955-11	C ₂₀₉	5pF Ceramic	C ₃₀₉	0.01 μ F (Built in Encapsulated Component)	
-871-11	C ₂₁₀	30pF //	C ₃₁₀	0.01 μ F (Built in Encapsulated Component)	
-871-11	C ₂₁₁	30pF //			
-876-11	C ₂₁₂	39pF //	1-103-658-11	C ₃₁₁	200pF Styrol
1-105-411-11	C ₂₁₃	0.01 μ F Mylar	1-121-161-11	C ₃₁₂	500 μ F 6V Electrolytic
1-101-140-11	C ₂₁₄	0.005 μ F Ceramic	-282-11	C ₄₀₁	10 μ F 12V //
-142-11	C ₂₁₅	0.02 μ F //	C ₄₀₂	—deleted—	
	C ₂₁₆	(Built in IFT ₂₀₁)	1-121-315-11	C ₄₀₃	100 μ F 6V Electrolytic
	C ₂₁₇	—deleted—	-287-11	C ₄₀₄	50 μ F 3V //
1-101-141-11	C ₂₁₈	0.01 μ F Ceramic	-315-11	C ₄₀₅	100 μ F 6V //
-955-11	C ₂₁₉	5pF //	1-105-419-12	C ₄₀₆	0.22 μ F Mylar
1-103-664-11	C ₂₂₀	360pF Styrol	-827-12	C ₄₀₇	0.0033 μ F //
1-101-862-11	C ₂₂₁	18pF Ceramic	-315-11	C ₄₀₈	100 μ F 6V Electrolytic
-959-11	C ₂₂₂	10pF //	-287-11	C ₄₀₉	50 μ F 3V //
1-103-678-11	C ₂₂₃	1300pF Styrol	1-127-019-11	C ₄₁₀	0.1 μ F //
1-101-864-11	C ₂₂₄	20pF Ceramic	1-105-821-12	C ₄₁₁	0.001 μ F Mylar

Exploded Diagram

(1)

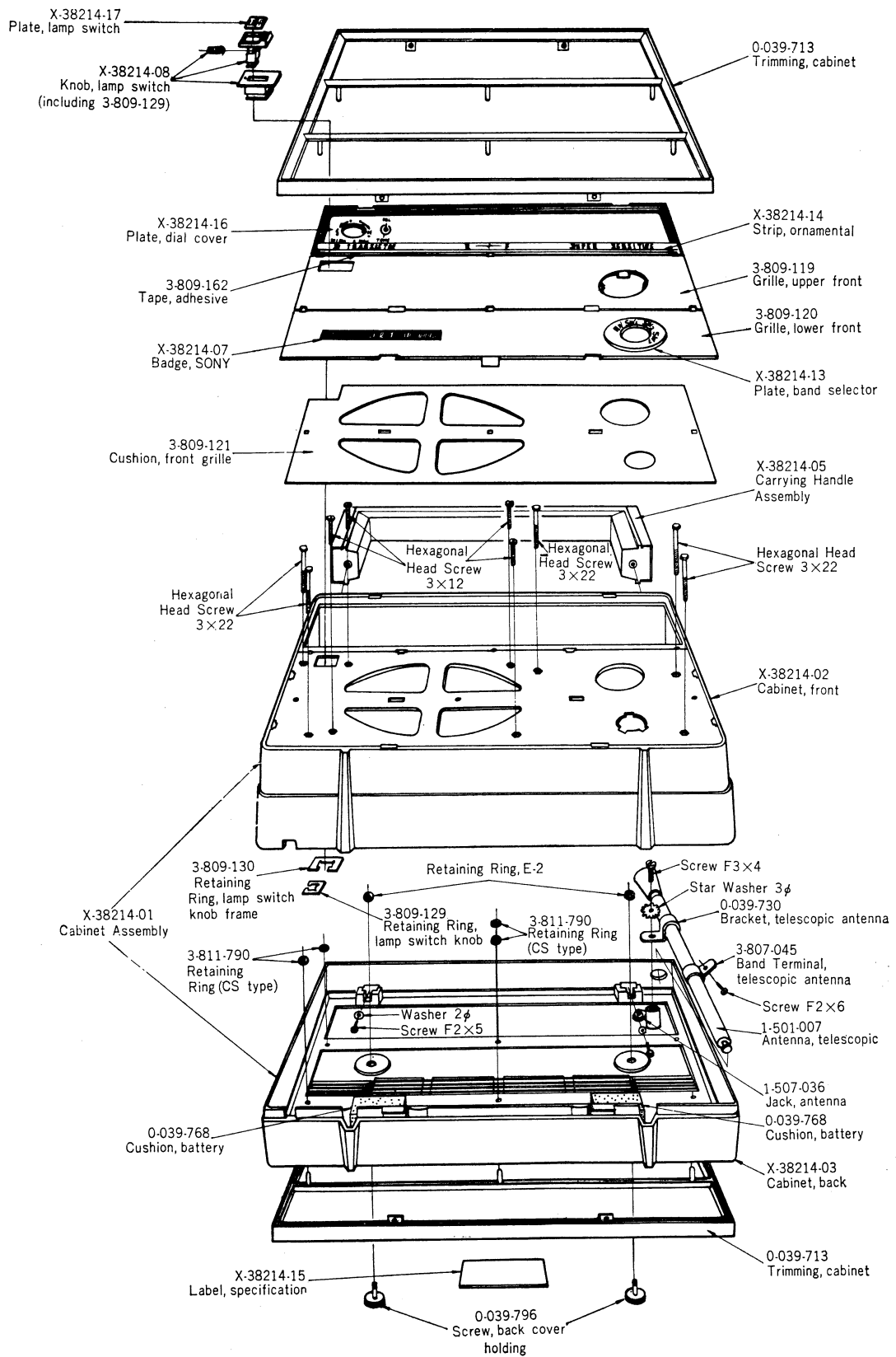


(2)



Exploded Diagram

(3)



(4)



PRODUCTION CHANGE**(Change of Former Service Manual at Page 13)****Former Type**

Serial No. Up to 14,400

Part No.	Description	Q'ty
X-38214-01-	Cabinet Ass'y	1
X-38214-02-	" , front	1
X-38214-03-	" , back	1
3-998-001-01	Battery Cylinder	1
0-039-796-00	Screw, back cover holding	2

New Type

Serial No. 14,401 and After

Part No.	Description	Q'ty
X-38214-31-1	Cabinet Ass'y	1
X-38214-32-1	" , front	1
3-821-471-01	" , back	1
3-998-010-04	Battery Cylinder	1
7-621-661-66	Screw, back cover holding	2

Additional

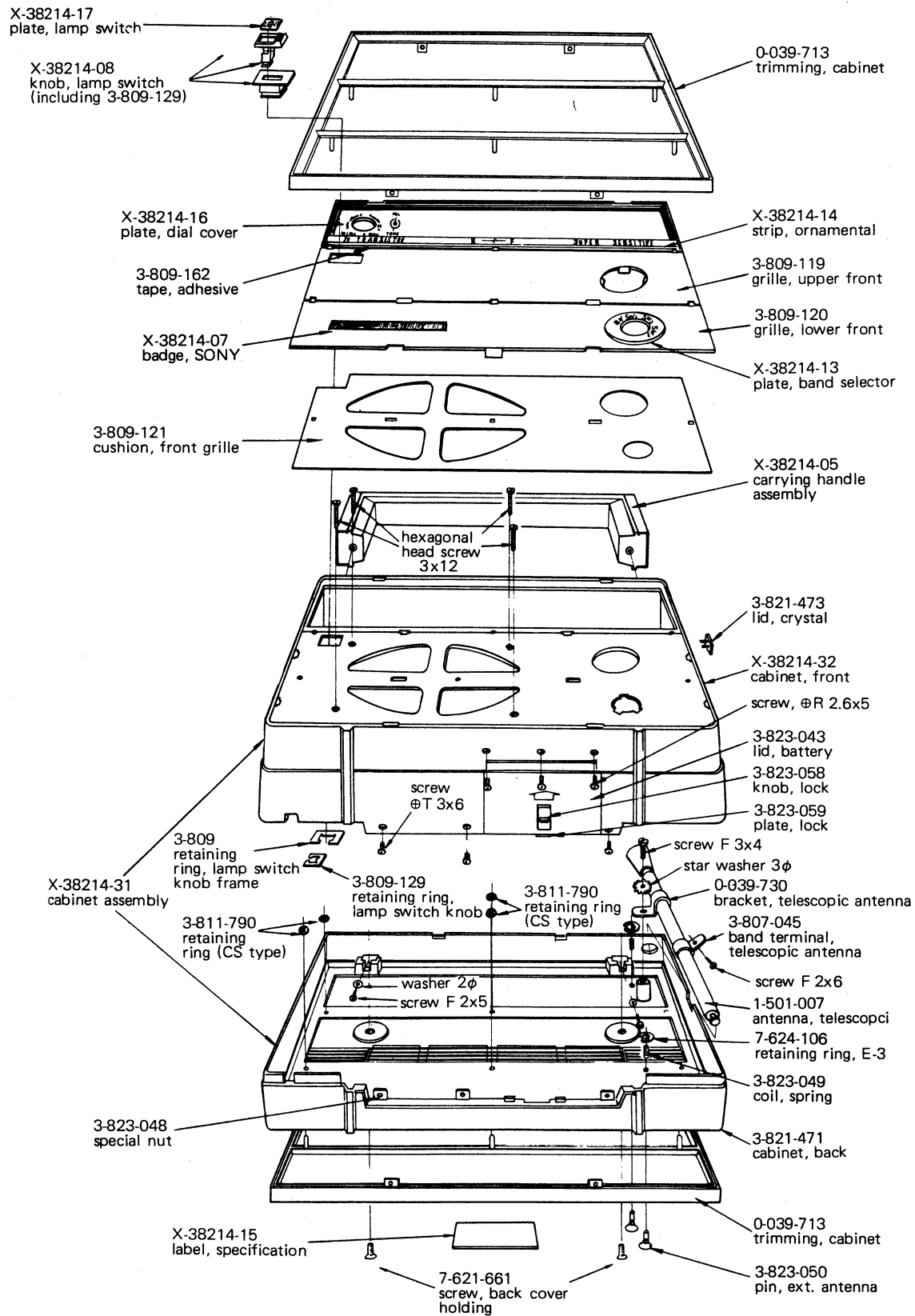
Part No.	Description	Q'ty
3-823-043-02	Lid, battery	1
-048-02	Special Nut	3
-049-01	Coil, spring	2
-050-01	Pin, ext. antenna	2
-058-03	Knob, lock	1
-059-02	Plate, lock	1
-060-01	Spring, lock	1
7-621-461-46	Screw, machine +T3×6	3
-721-61	" tapping +R2.6×5	3
7-624-106-01	Retaining Ring, E-3	2

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Part No.	Description	Q'ty
7-621-999-33	Screw, hexagonal 3×22	4
0-039-768-00	Cushion	2
7-624-104-01	Retaining Ring, E-2	2
1-507-036-02	Jack, antenna	1

Exploded Diagram

—Cabinet—



SONY CORPORATION

TR Service Bulletin No. 67-2

Serial No. 117,921 and after

DATE: August 25, 1967

SUBJECT:

1. Replacement of SW3 OSC Coil.
2. Addition of a Ceramic Capacitor.
3. Replacement of Tuning Capacitor and Mount for Tuning Capacitor.

REASON:

To avoid a frequency drift.

DESCRIPTION:

Parts	Part Number		Remarks
	Old Type	New Type	
SW3 OSC Coil	1-405-278-11	1-405-278-12	Lower Q
C235 Ceramic Capacitor	Nil	1-101-951-11	1pF±0.5pF 25WV See Fig. 1
Tuning Capacitor	1-151-133-11	1-151-159-11	Less capacitance fluctuation
Mount for Tuning Capacitor	3-821-445-03	3-821-445-04	See Fig. 3

1. Mounting and Schematic Diagrams are shown in Fig. 1 (A) and (B).
2. The changed positions of the Mount for Tuning Capacitor are shown in Fig. 3

Fig. 1(A) Mounting Diagram

SONY®

TR-1000

TR Service Bulletin No. 67-1

Serial No. 118,481 and after

DATE: August 25, 1967

SUBJECT:

Replacement of IFT301 and C306.

REASON:

To improve the efficiency of adjustment.

DESCRIPTION:

Parts	Part Number		Remarks
	Old Type	New Type	
IFT 301	1-403-152-11	1-403-157-11	Pre-Peaking IFT
C 306	1-101-956-11	1-101-957-11	6pF→7pF±0.5pF 25WV According to the above change

SONY CORPORATION

— Printed Side —

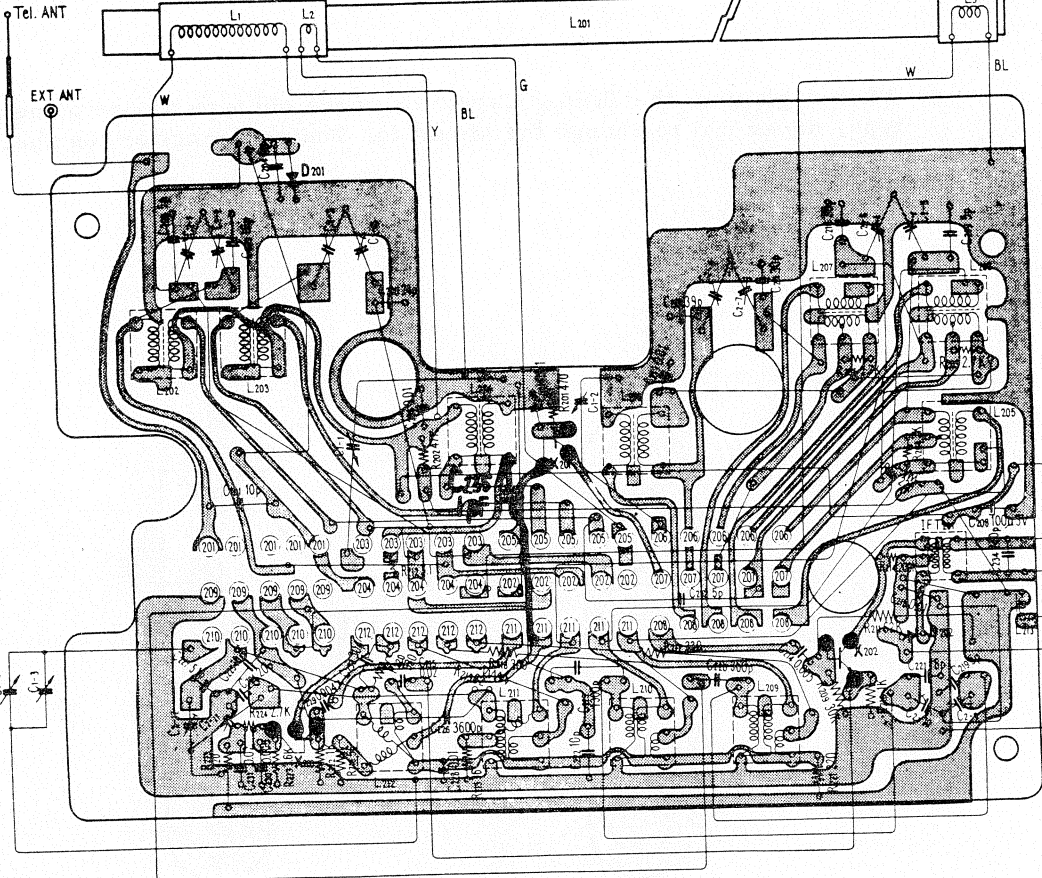


Fig. 2 (A) Mounting Diagram

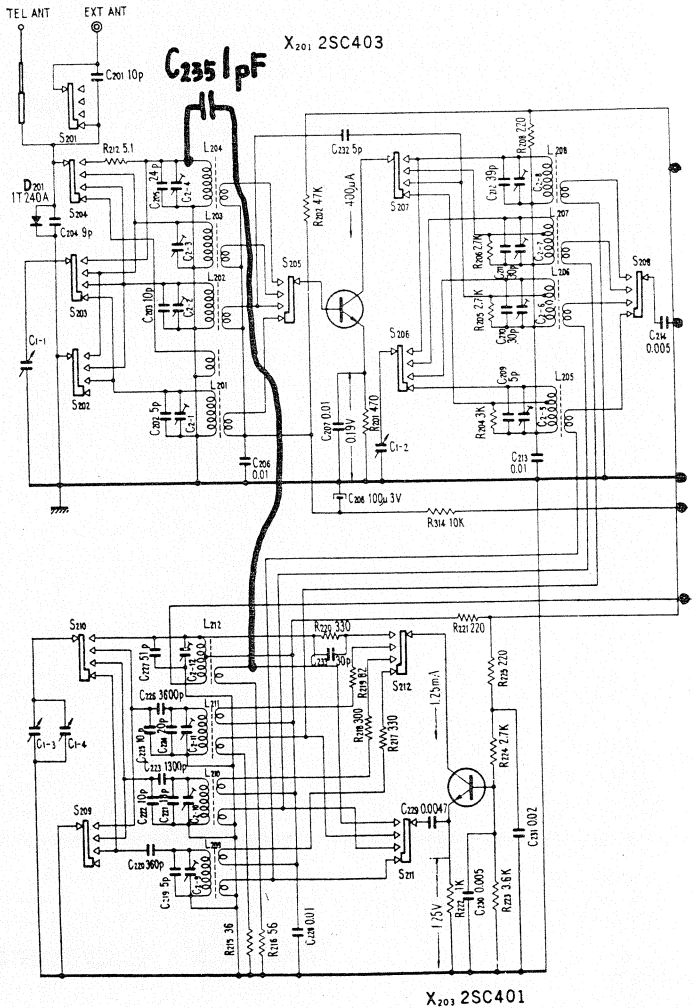


Fig.2 (B) Schematic Diagram

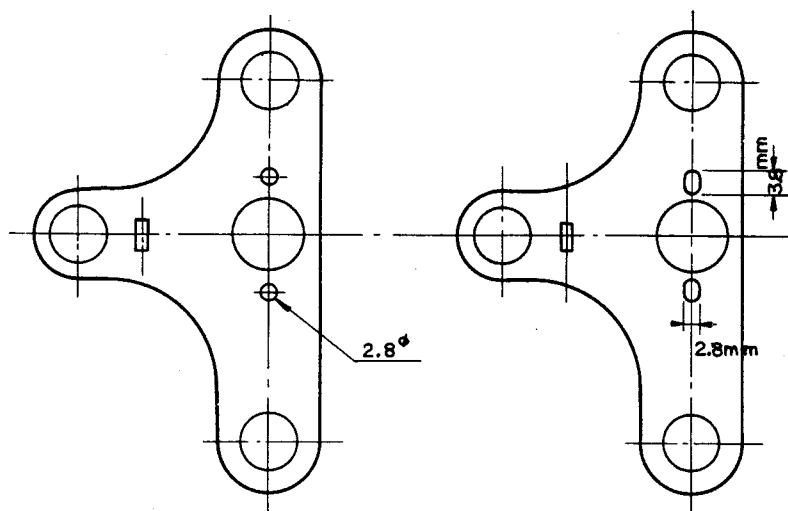
NOTE:

1. For the same reason, a ceramic capacitor ($1\mu\text{F} \pm 0.5\mu\text{F}$ 25WV, 1-101-951-11) was added between SW3 OSC Coil and SW3 ANT Coil in the sets with serial No. 104, 476 — 118, 481.

Mounting and Schematic Diagrams are shown in Fig.2 (A) and (B).

X₂₀₃ 2SC401

2. When replacing the Tuning Capacitor of the old type by one of new type, never fail to change the Mount for Tuning Capacitor together.



(Old Type)

(New Type)

Fig. 3. Mount for Tuning Capacitor

SONY®

TR-1000

TR Service Bulletin No. 67-2

Serial No. 117,921 and after

DATE: August 25, 1967

SUBJECT:

1. Replacement of SW3 OSC Coil.
2. Addition of a Ceramic Capacitor.
3. Replacement of Tuning Capacitor and Mount for Tuning Capacitor.

REASON:

To avoid a frequency drift.

DESCRIPTION:

Parts	Part Number		Remarks
	Old Type	New Type	
SW3 OSC Coil	1-405-278-11	1-405-278-12	Lower Q
C 235 Ceramic Capacitor	Nil	1-101-951-11	1pF±0.5pF 25WV See Fig. 1
Tuning Capacitor	1-151-133-11	1-151-159-11	Less capacitance fluctuation
Mount for Tuning Capacitor	3-821-445-03	3-821-445-04	See Fig. 3

1. Mounting and Schematic Diagrams are shown in Fig. 1 (A) and (B).
2. The changed positions of the Mount for Tuning Capacitor are shown in Fig. 3

SONY CORPORATION

RF Section
— Printed Side —

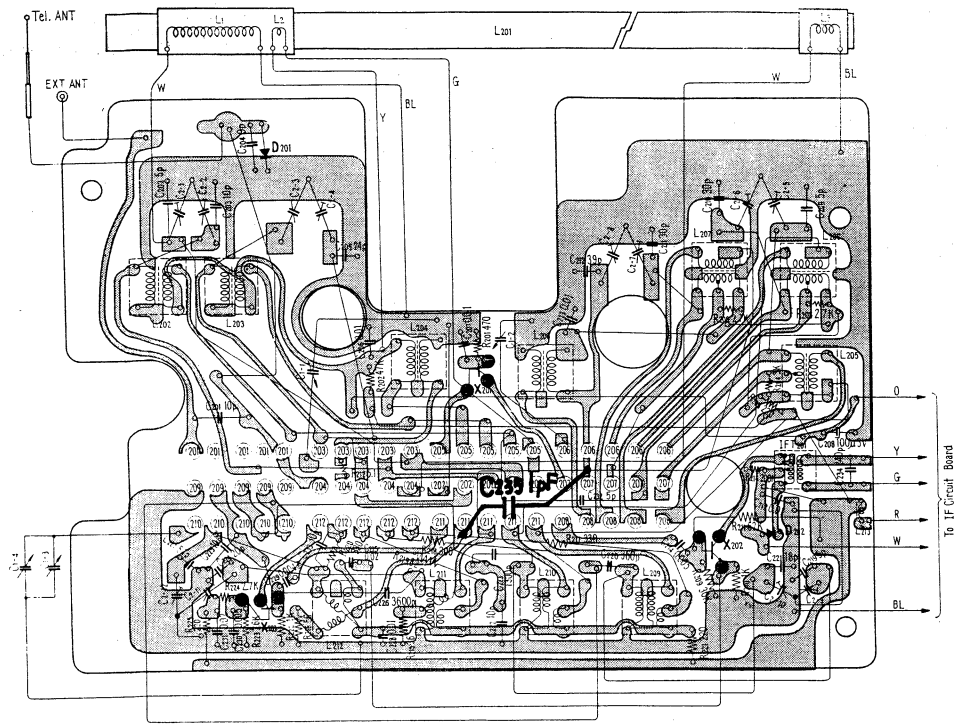


Fig. 1(A) Mounting Diagram

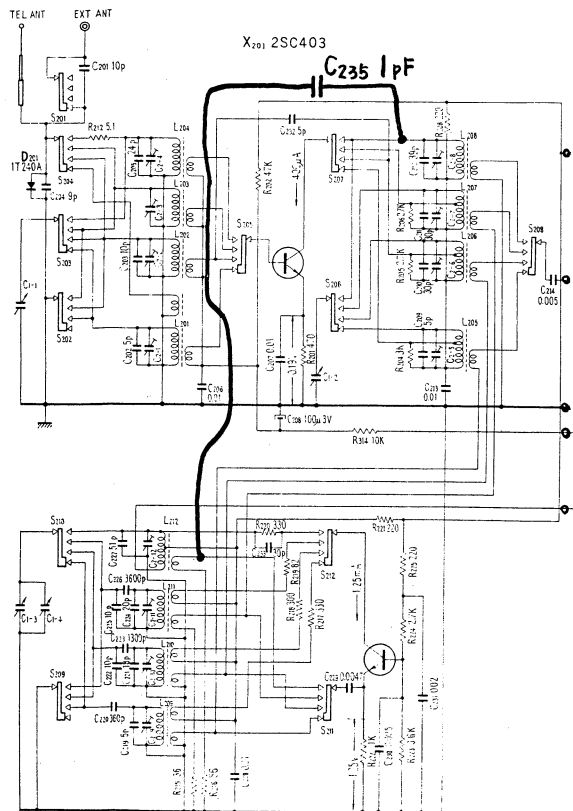


Fig. 1(B) Schematic Diagram

X₂₀₁ 2SC401

NOTE:

1. For the same reason, a ceramic capacitor ($1\text{pF} \pm 0.5\text{pF}$ 25WV, 1-101-951-11) was added between SW3 OSC Coil and SW3 ANT Coil in the sets with serial No. 104,476 — 118,481.

Mounting and Schematic Diagrams are shown in Fig.2(A) and (B).

RF Section

— Printed Side —

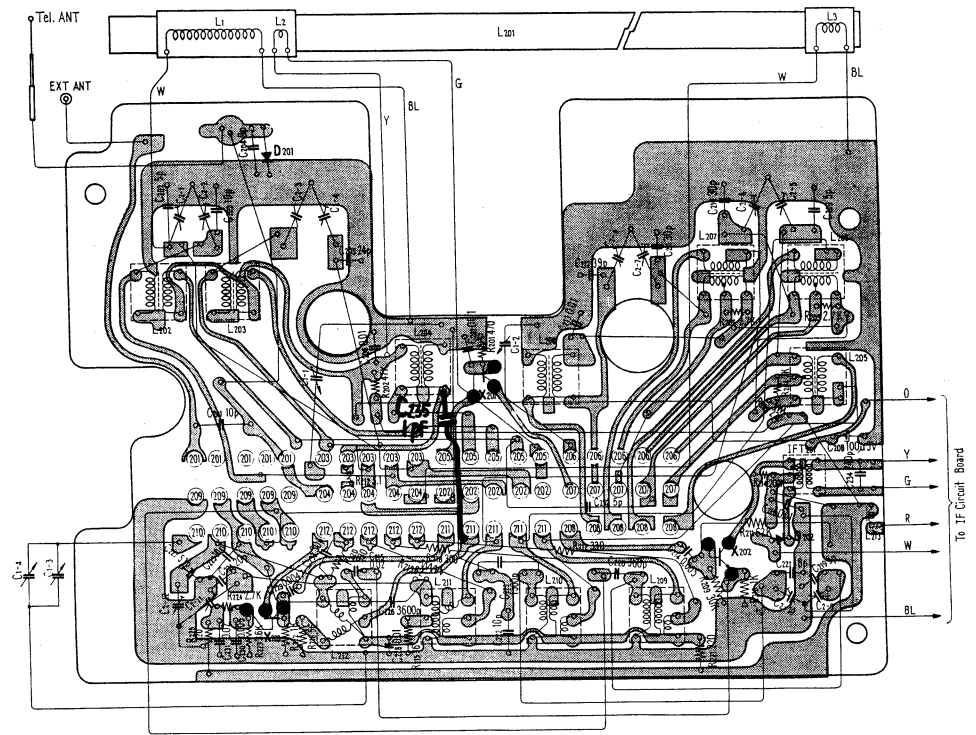


Fig.2 (A) Mounting Diagram

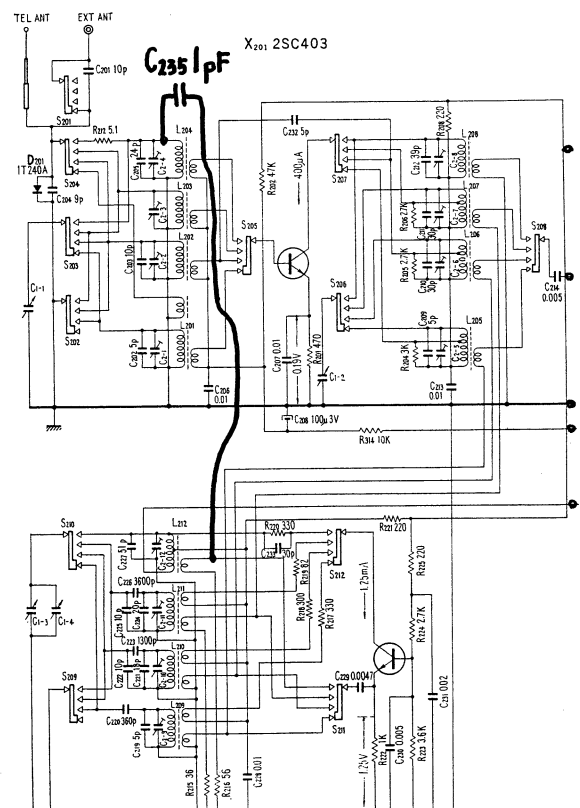
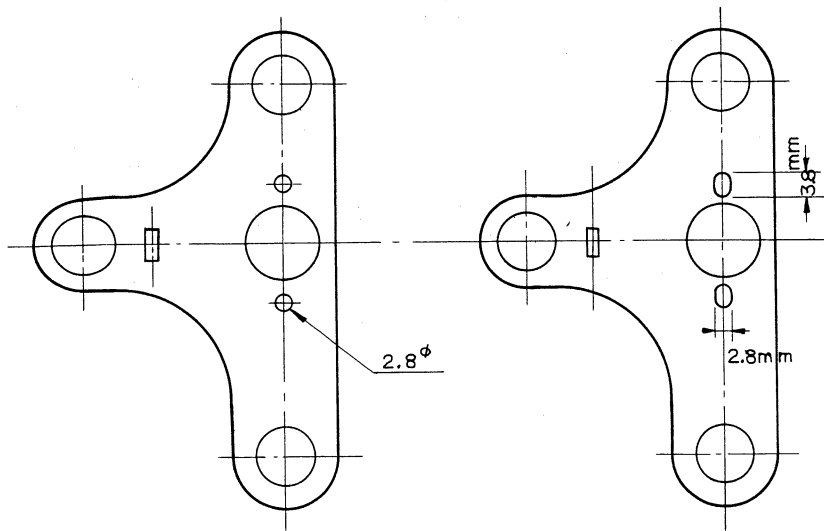


Fig. 2 (B) Schematic Diagram

2. When replacing the Tuning Capacitor of the old type by one of new type, never fail to change the Mount for Tuning Capacitor together.



(Old Type)

(New Type)

Fig. 3. Mount for Tuning Capacitor

Serial No. 14,401 and after

TR-1000

No. 2

PRODUCTION CHANGE

(Change of Former Service Manual at Page 13)

Former Type

Serial No. Up to 14,400

Part No.	Description	Q'ty
X-38214-01-	Cabinet Ass'y	1
X-38214-02-	" , front	1
X-38214-03-	" , back	1
3-998-001-01	Battery Cylinder	1
0-039-796-00	Screw, back cover holding	2

New Type

Serial No. 14,401 and After

Part No.	Description	Q'ty
X-38214-31-1	Cabinet Ass'y	1
X-38214-32-1	" , front	1
3-821-471-01	" , back	1
3-998-010-04	Battery Cylinder	1
7-621-661-66	Screw, back cover holding	2

Additional

Part No.	Description	Q'ty
3-823-043-02	Lid, battery	1
-048-02	Special Nut	3
-049-01	Coil, spring	2
-050-01	Pin, ext. antenna	2
-058-03	Knob, lock	1
-059-02	Plate, lock	1
-060-01	Spring, lock	1
7-621-461-46	Screw, machine +T3×6	3
-721-61	" tapping +R2.6×5	3
7-624-106-01	Retaining Ring, E-3	2

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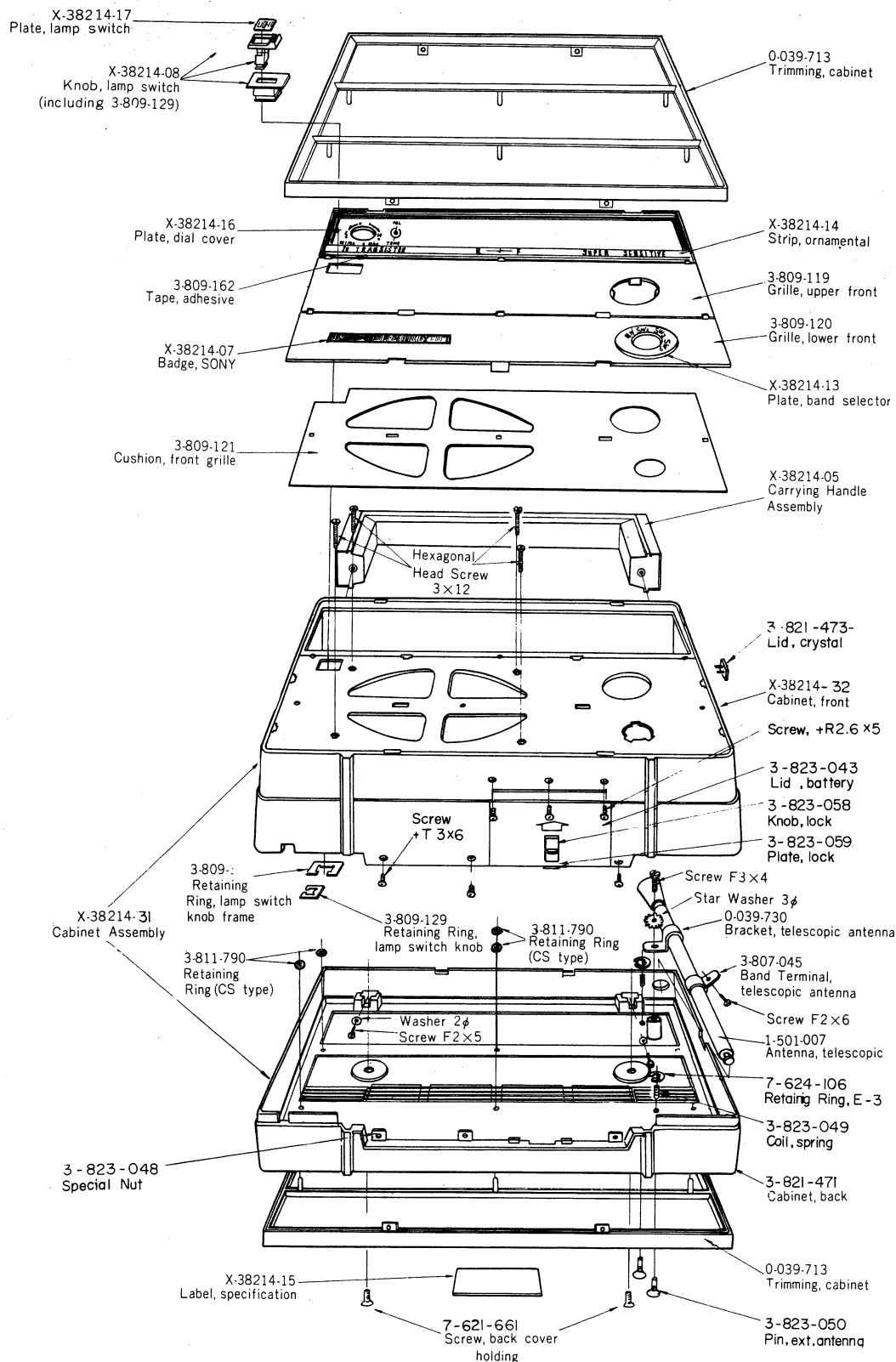
Part No.	Description	Q'ty
7-621-999-33	Screw, hexagonal 3×22	4
0-039-768-00	Cushion	2
7-624-104-01	Retaining Ring, E-2	2
1-507-036-02	Jack, antenna	1

SONY®
SERVICE MANUAL

-1000

Exploded Diagram

—Cabinet—



SONY CORPORATION